

FIG.1

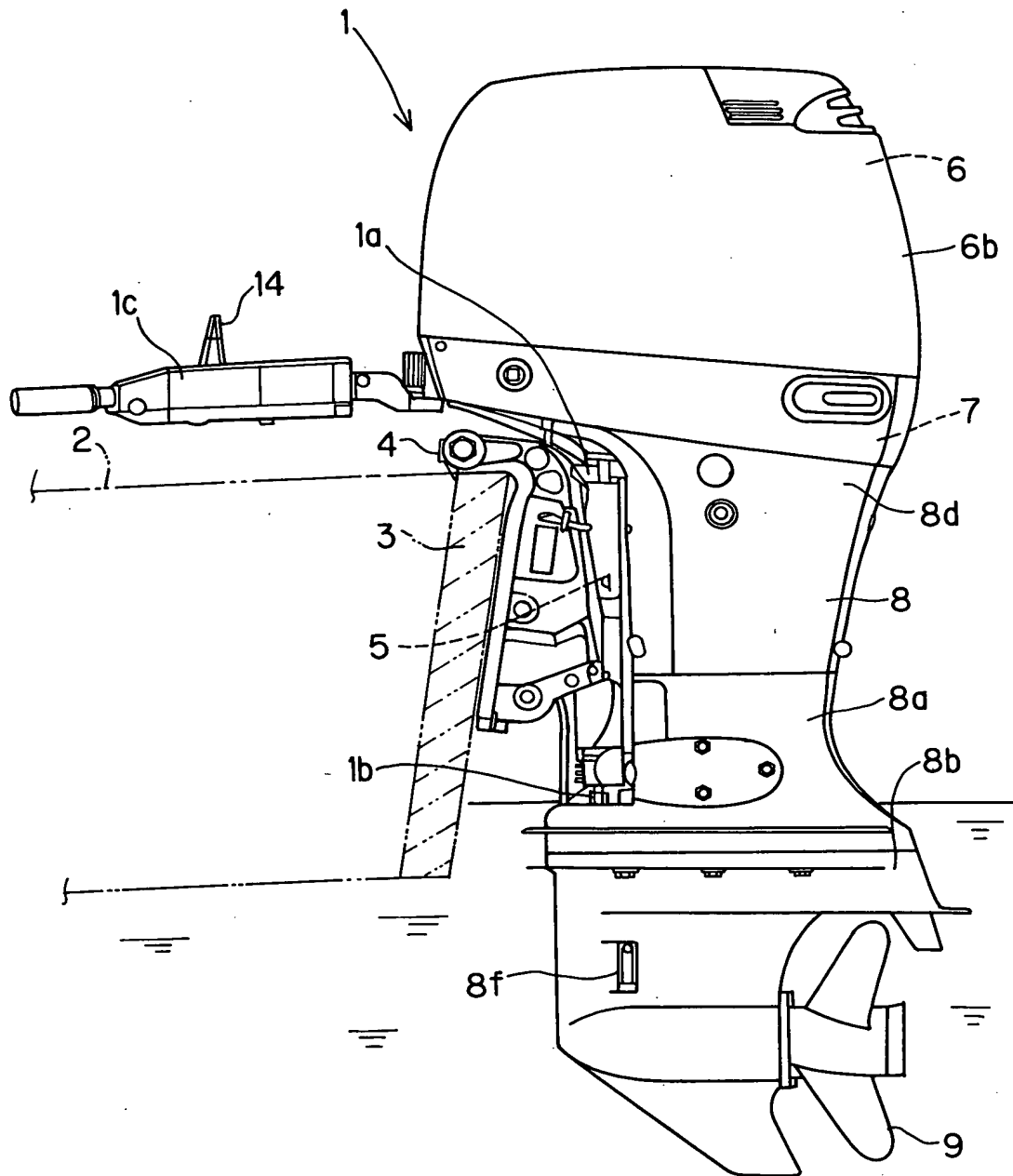


FIG.2

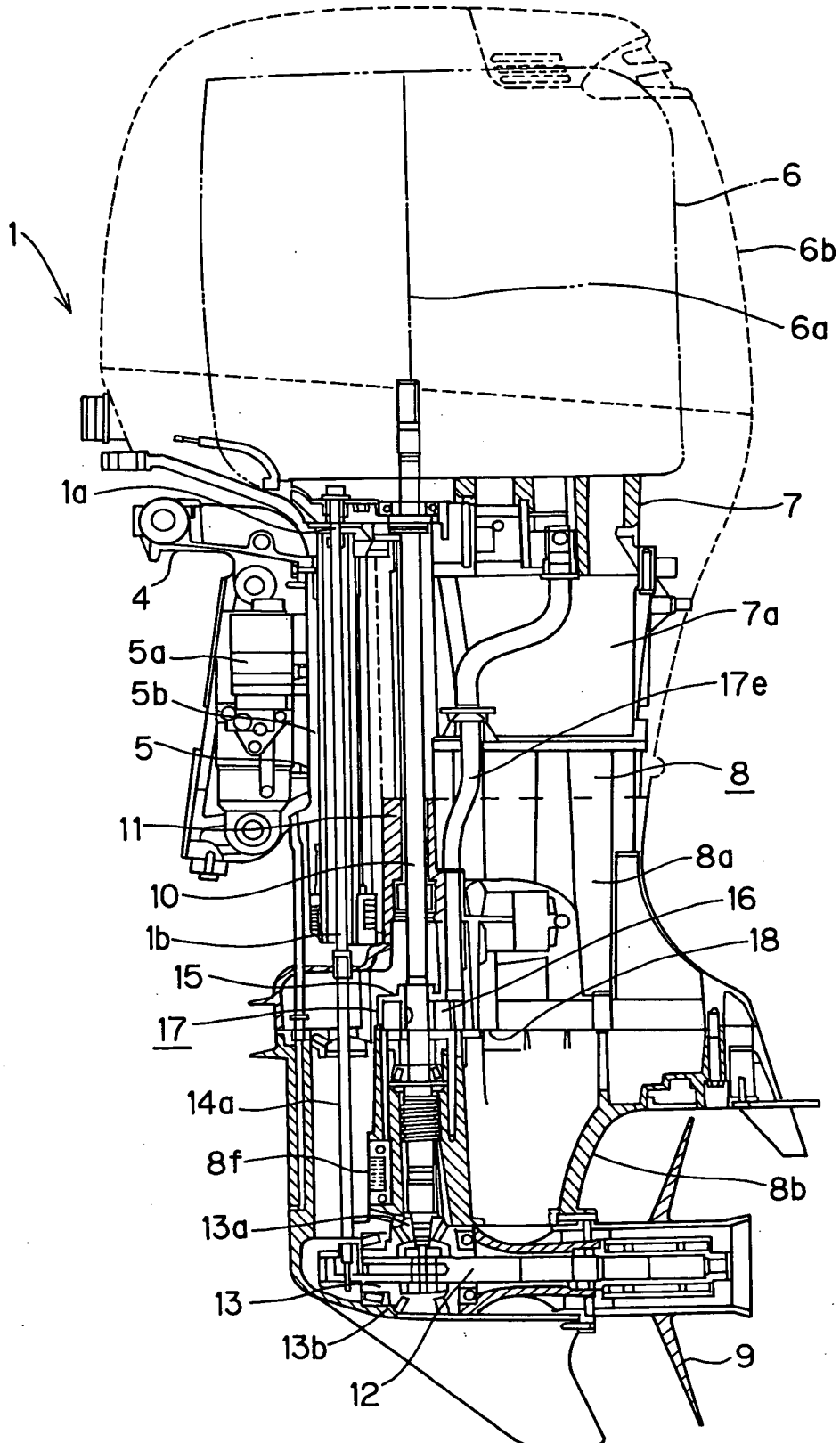


FIG.3

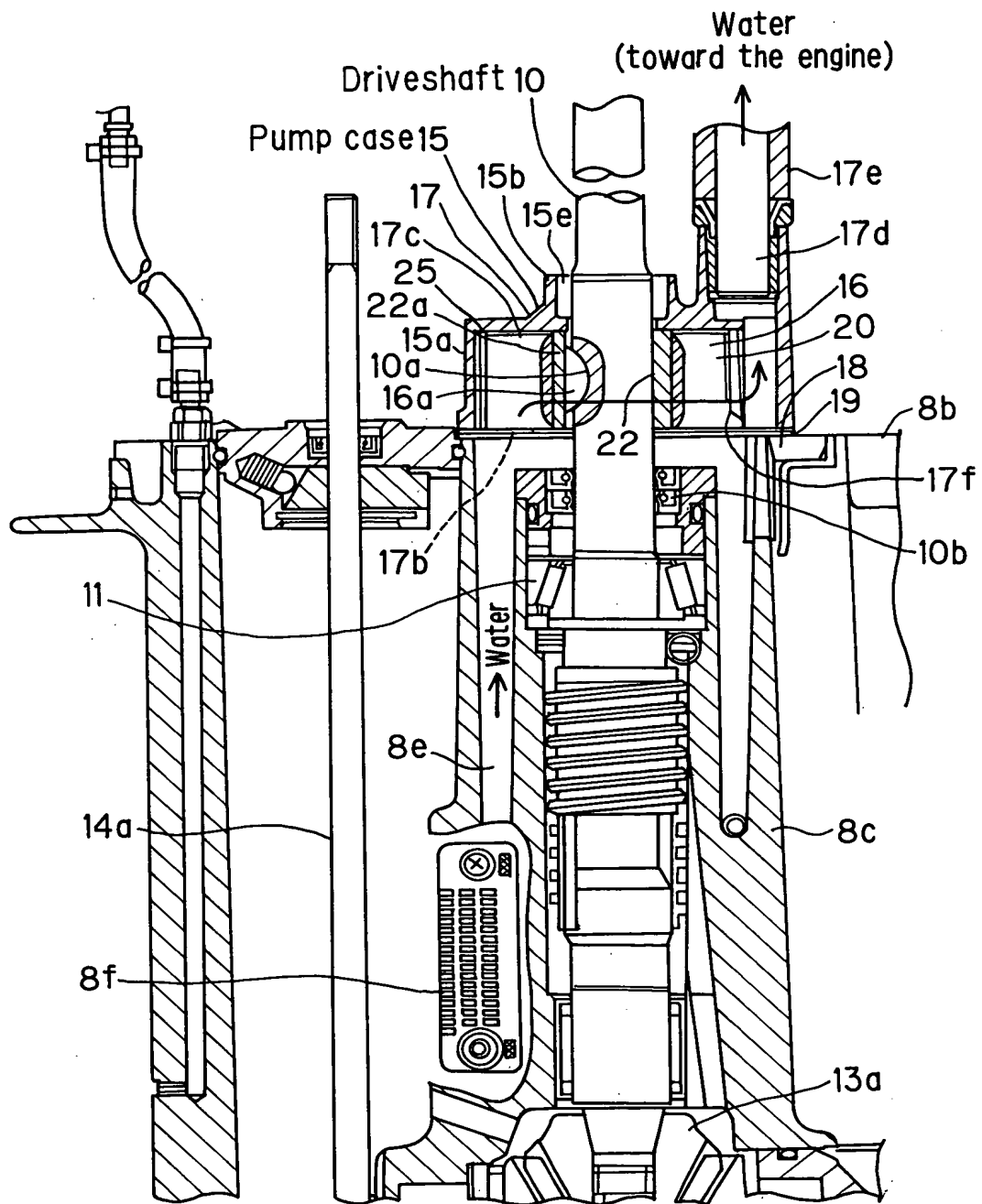
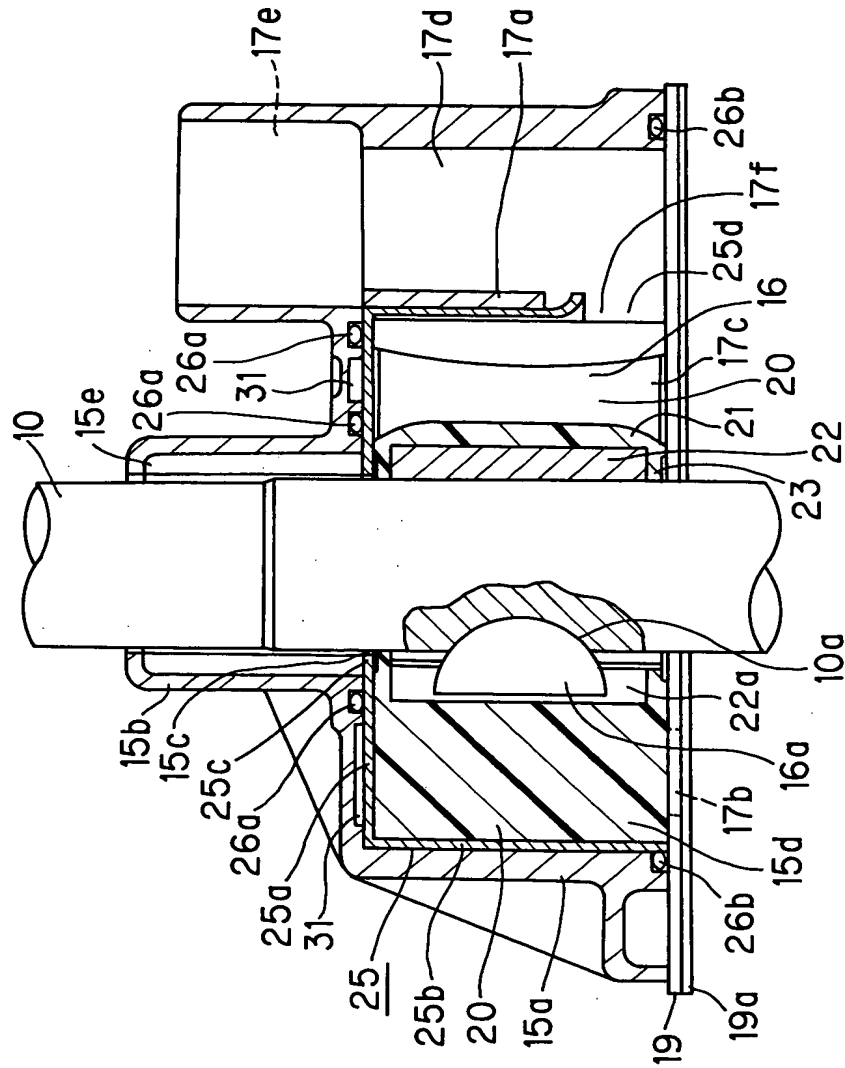


FIG. 4



Resin cooling pump structure



FIG.6A

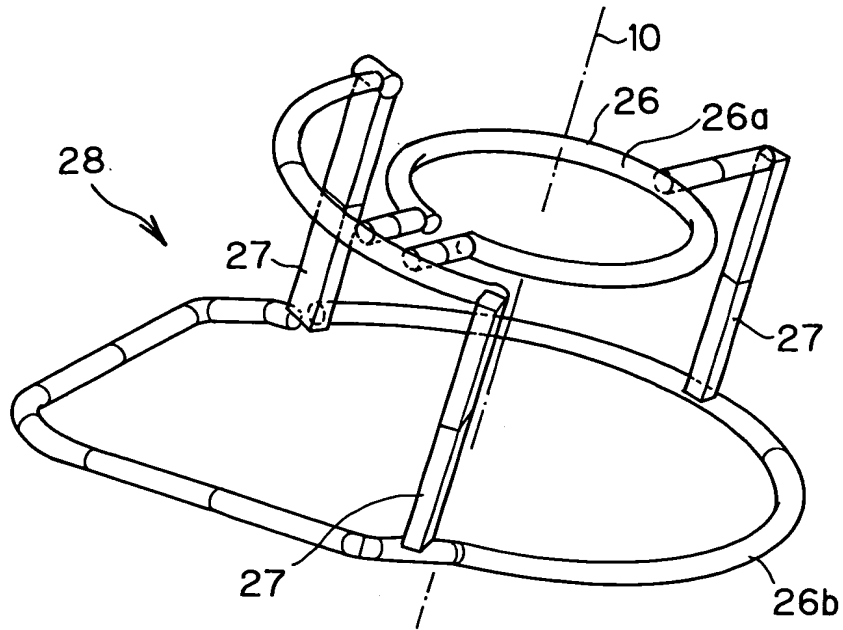
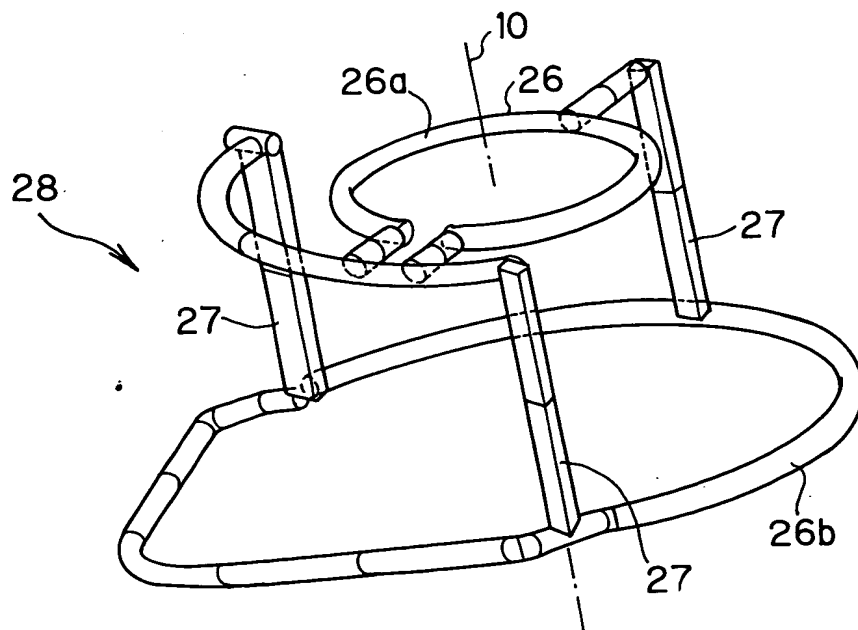


FIG.6B



O-ring configurations

Figure 17A is a detailed cross-sectional view of a mechanical assembly. The assembly includes a central shaft (10) with a flange (10a) and a hub (10b). The shaft is supported by a bearing (19) and a housing (17). The housing has a flange (17a) and a hub (17b). The shaft is secured by a nut (15) and a washer (16). The housing is secured by a nut (15) and a washer (16). The assembly is shown in a cross-sectional view with various components labeled with reference numerals.

FIG. 8A

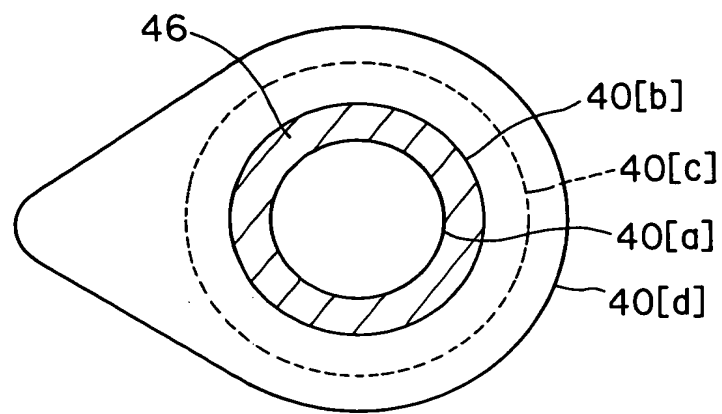


FIG. 8B

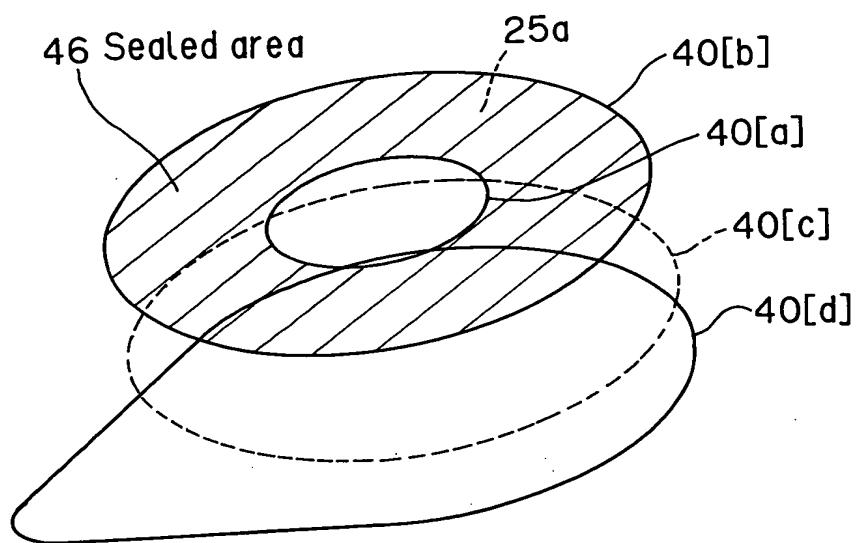




FIG.9A

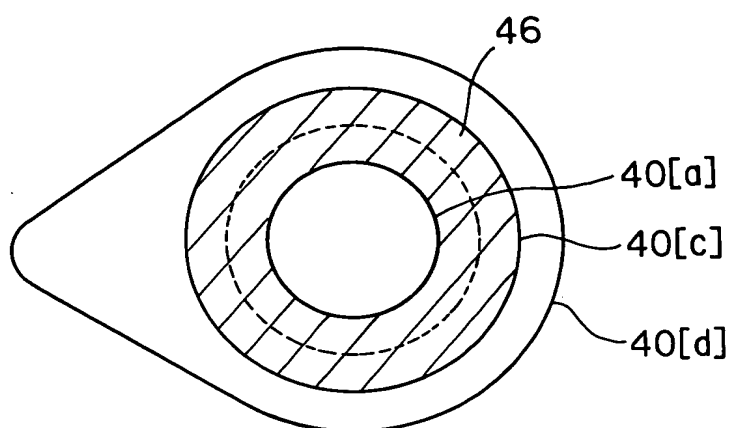


FIG.9B

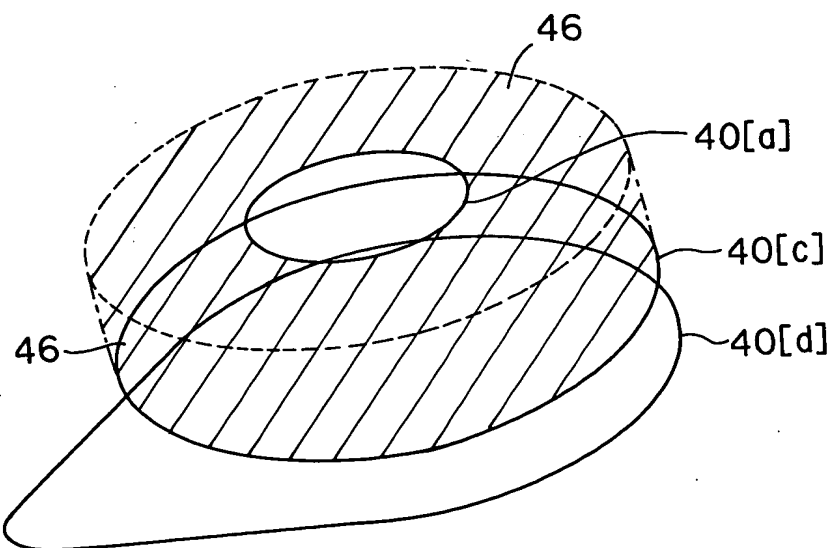


FIG.10A

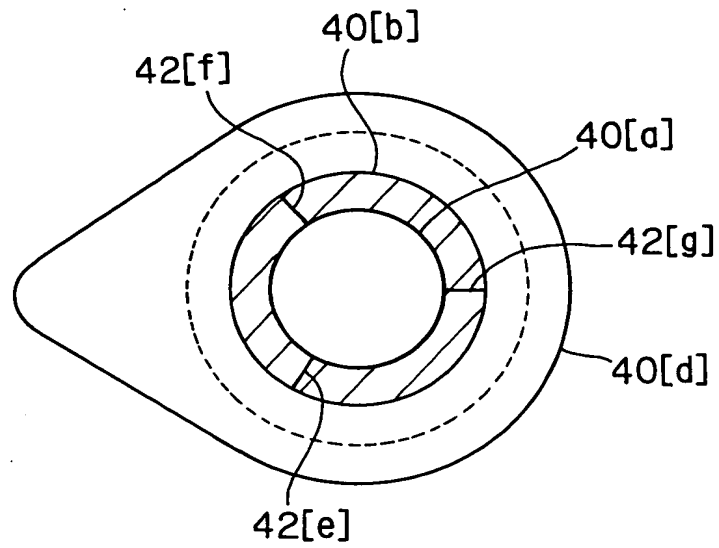


FIG.10B

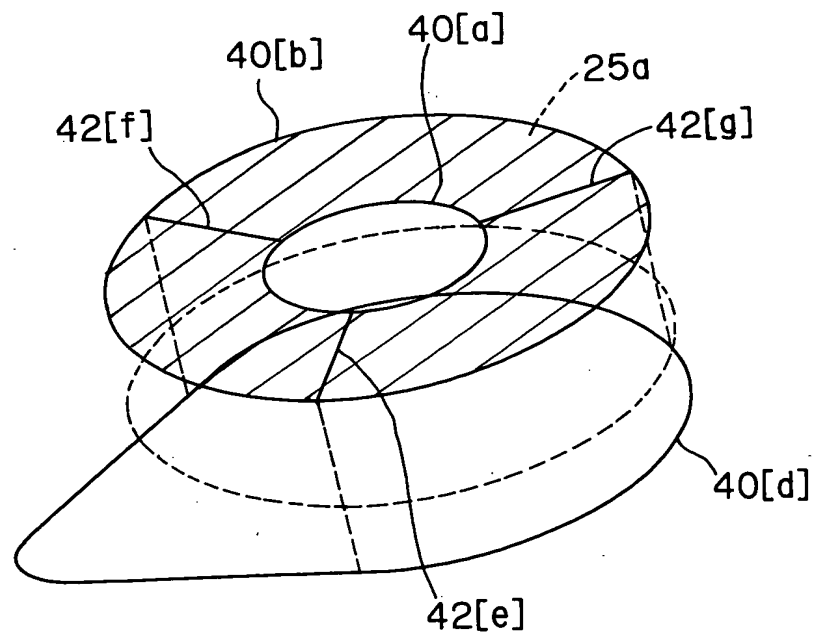


FIG.11A

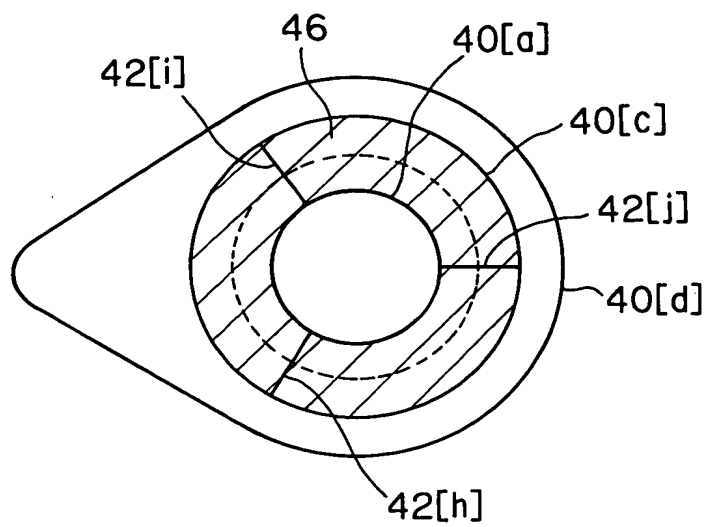


FIG.11B

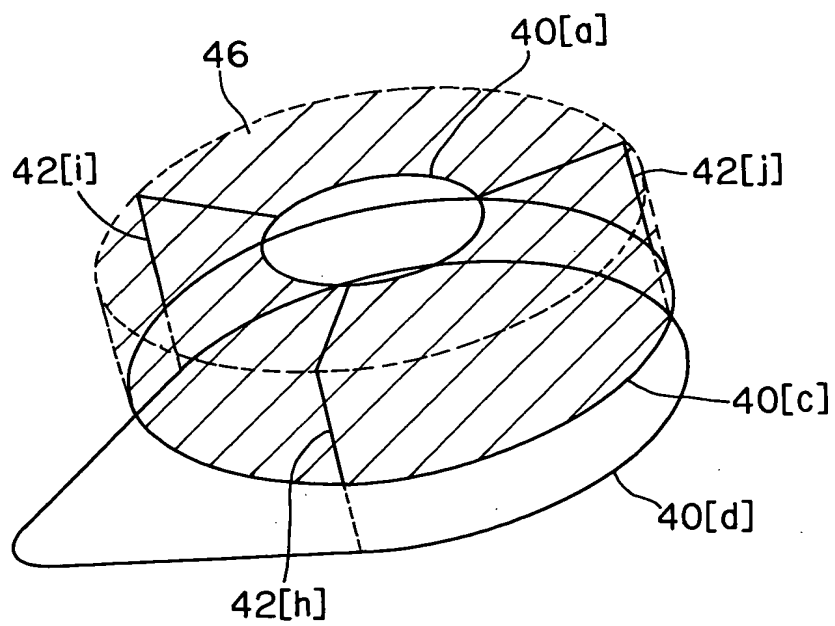


FIG.12A

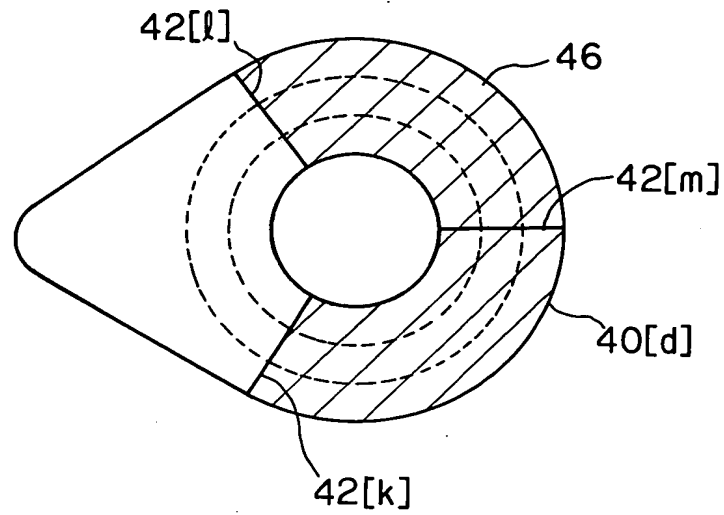


FIG.12B

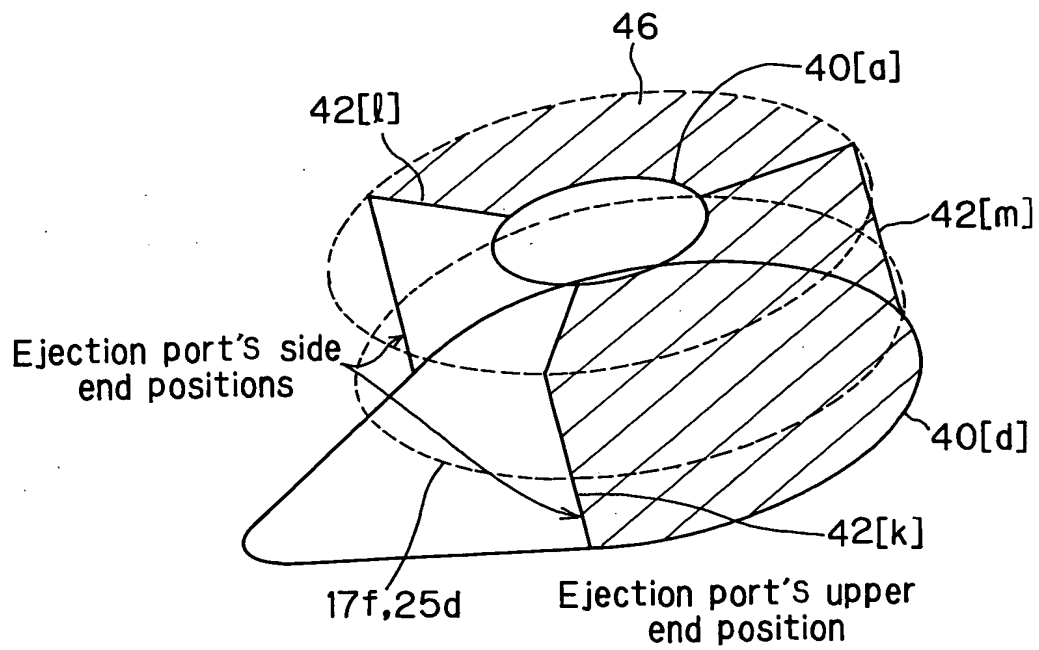


FIG.13A

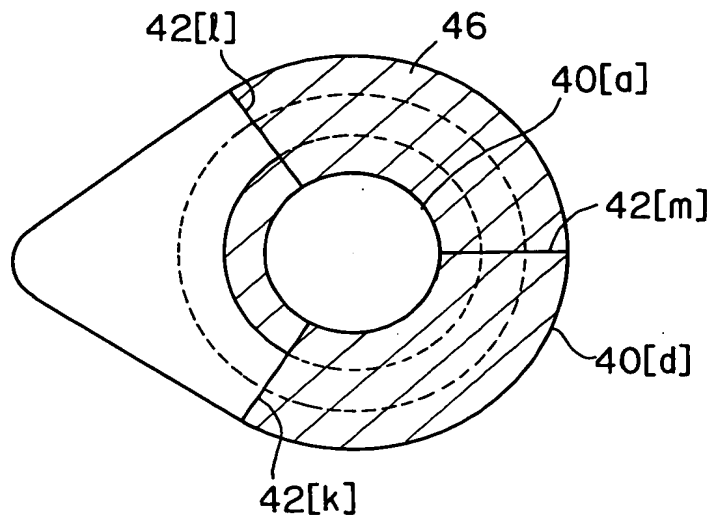


FIG.13B

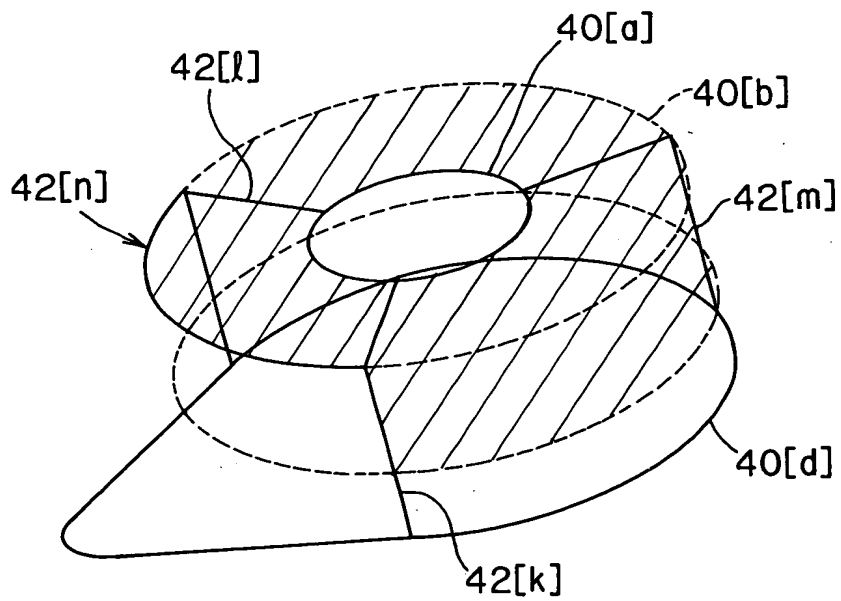


FIG.14A

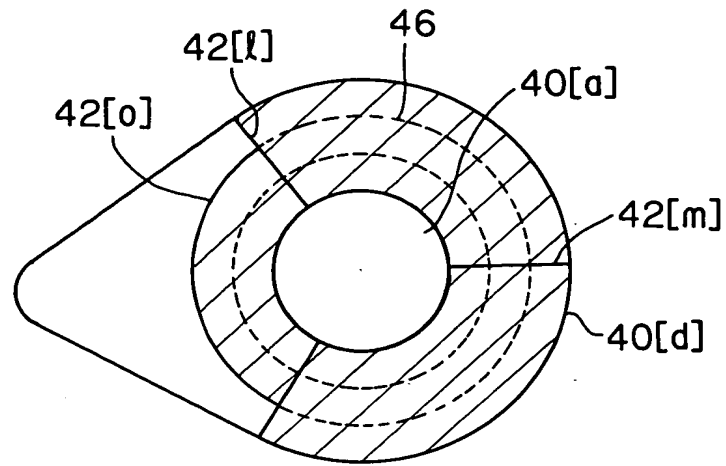


FIG.14B

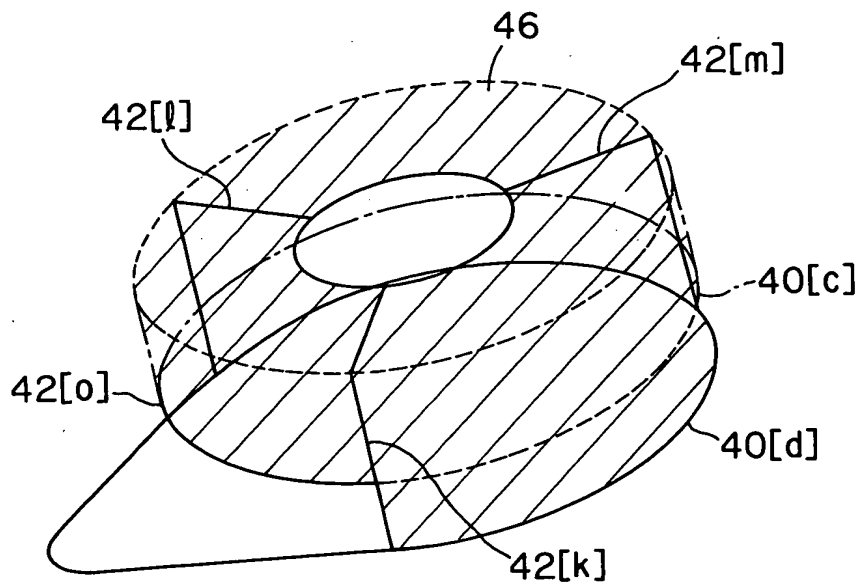
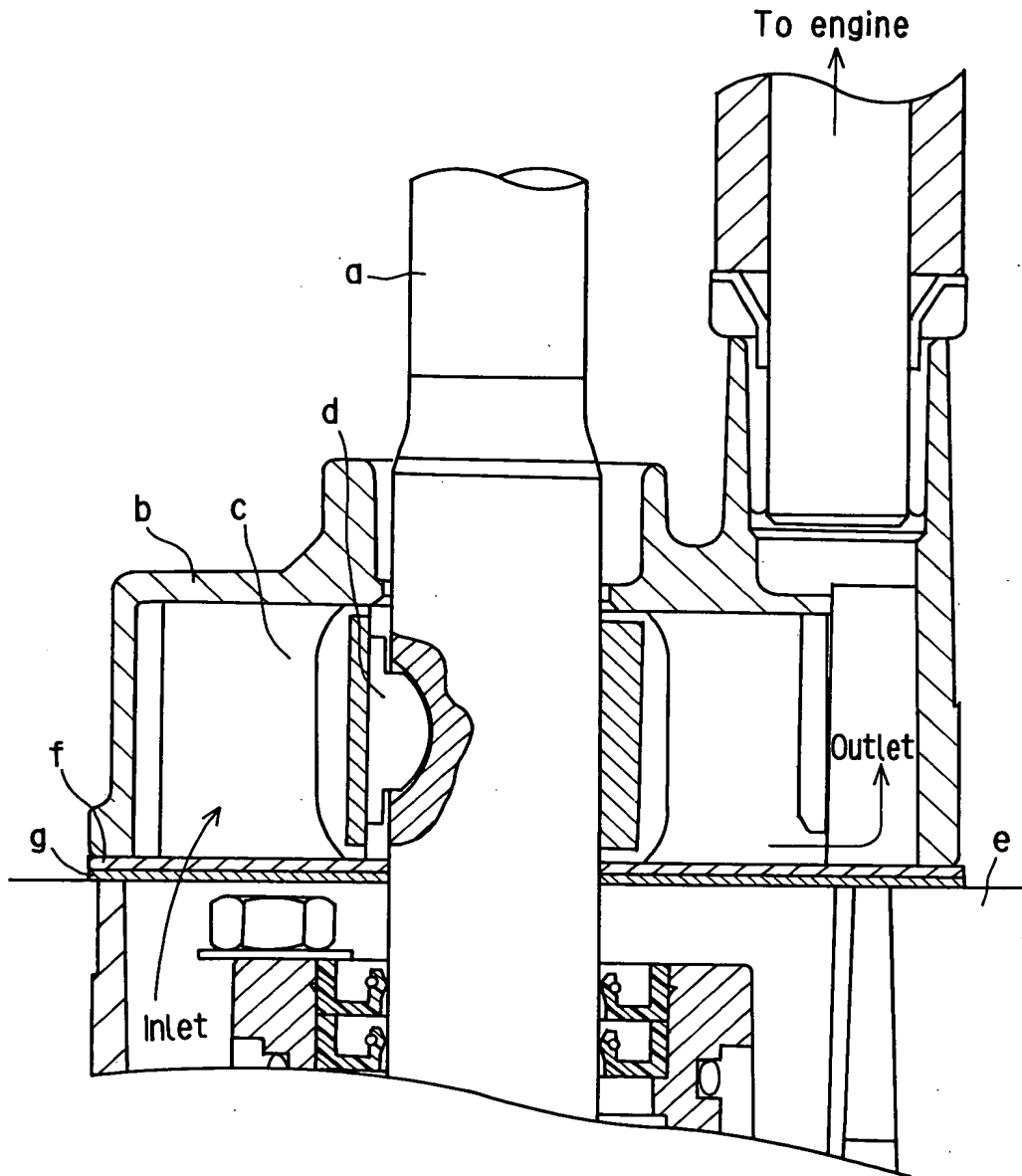
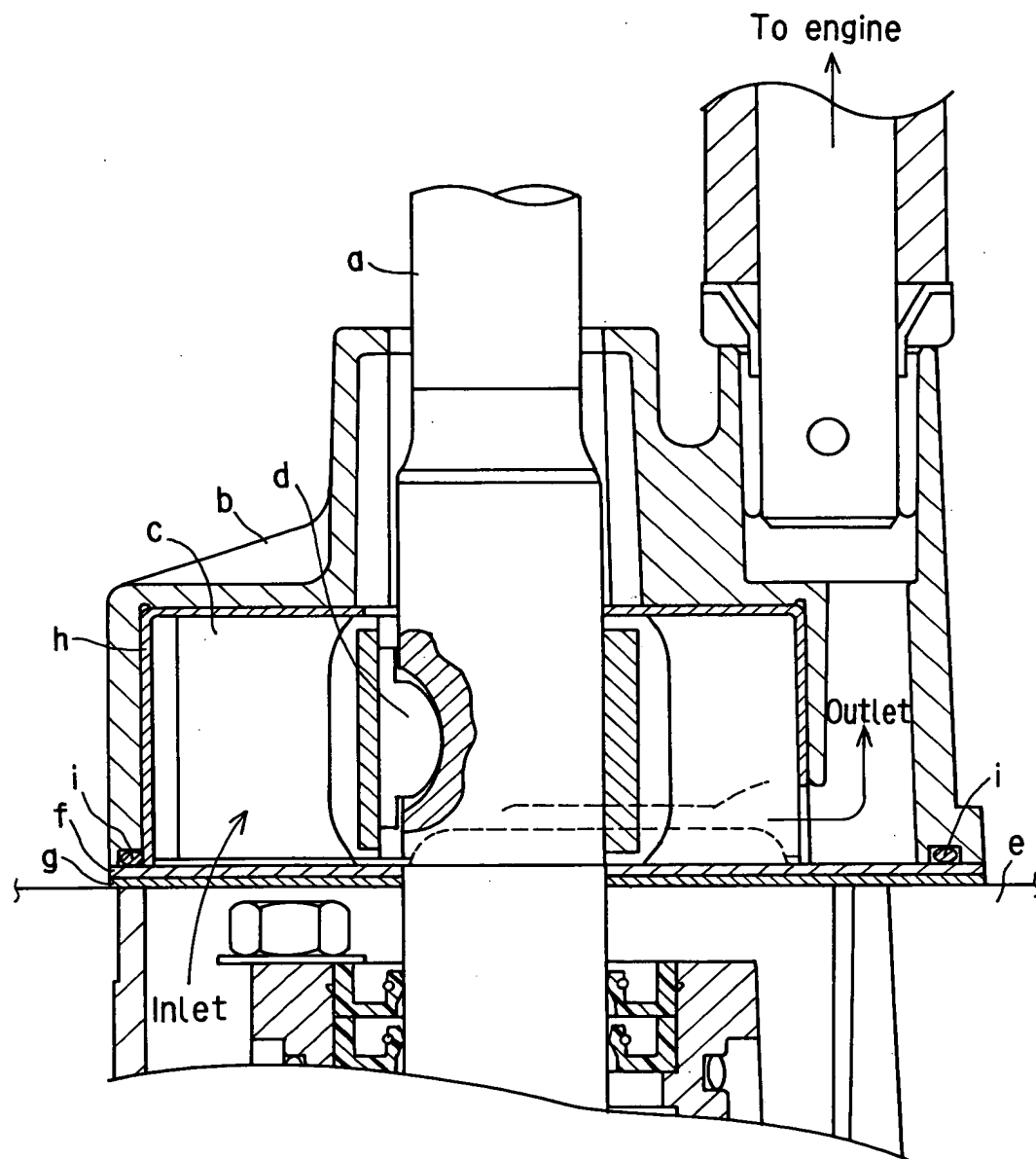


FIG.15  
PRIOR ART



Conventional stainless cooling pump configuration

FIG.16  
PRIOR ART



Conventional resin cooling pump configuration